

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/006256

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F25D29/00 F25D17/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F25D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 982 552 A (SAMSUNG ELECTRONICS CO LTD) 1 March 2000 (2000-03-01)	1-3,5
Y	figures 8a,8b,8c	4
Y	DE 39 04 216 A (MIELE & CIE) 16 August 1990 (1990-08-16)	4
A	column 3, line 38 - line 46; claim 4; figure 1	8
X	US 2 442 188 A (BAUMAN JOHN J) 25 May 1948 (1948-05-25) the whole document	1,10
X	US 2 549 547 A (ALLEN TRASK) 17 April 1951 (1951-04-17) the whole document	1,10,11
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

18 October 2004

Date of mailing of the international search report

22/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3018

Authorized officer

De Graaf, J.D.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/006256

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 014, no. 155 (M-0954), 26 March 1990 (1990-03-26) - & JP 02 017375 A (FUJITSU GENERAL LTD), 22 January 1990 (1990-01-22)	1,2,6,7, 9
Y	abstract; figure 5	8
Y	PATENT ABSTRACTS OF JAPAN vol. 013, no. 542 (M-901), 5 December 1989 (1989-12-05) - & JP 01 222177 A (FUJITSU GENERAL LTD), 5 September 1989 (1989-09-05) abstract; figures 1,2,4	8
X	DE 101 39 834 A (BSH BOSCH SIEMENS HAUSGERAETE) 27 February 2003 (2003-02-27) paragraph '0022!; figures 1-4	1-3,5
X	US 6 006 530 A (CHO SUNG-HO ET AL) 28 December 1999 (1999-12-28) figures 3,5,7	1,6,7,9
X	EP 0 859 206 A (FISHER & PAYKEL) 19 August 1998 (1998-08-19) figures 7-10	1,6,7,9
X	EP 0 949 468 A (BOSCH SIEMENS HAUSGERAETE) 13 October 1999 (1999-10-13) the whole document	1-3
P,X	WO 03/054462 A (BSH BOSCH SIEMENS HAUSGERAETE ; KONOPA HELMUT (DE)) 3 July 2003 (2003-07-03) the whole document	1,2,10, 11
P,X	EP 1 342 967 A (FRIULINOX S R L) 10 September 2003 (2003-09-10) the whole document	1-4
P,X	WO 2004/015342 A (BSH BOSCH SIEMENS HAUSGERAETE) 19 February 2004 (2004-02-19) figure 3d	1,2,6,7, 9
A	US 2 285 946 A (MILTON KALISCHER) 9 June 1942 (1942-06-09) the whole document	1,10,11
A	US 3 403 534 A (BRIGHT JAMES A ET AL) 1 October 1968 (1968-10-01) column 4, line 3 - line 18	8
A	US 2 346 837 A (GROOMS ALBERT O) 18 April 1944 (1944-04-18)	
A	US 2 416 354 A (SHOEMAKER MALCOLM G) 25 February 1947 (1947-02-25)	

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/EP2004/006256

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0982552	A	01-03-2000	EP 0982552 A2	01-03-2000
			EP 0984229 A2	08-03-2000
			EP 0984230 A2	08-03-2000
			EP 0984231 A2	08-03-2000
			EP 0984232 A2	08-03-2000
			EP 0984233 A2	08-03-2000
			EP 0984234 A2	08-03-2000
			EP 0984235 A2	08-03-2000
			EP 0984236 A2	08-03-2000
			AU 707209 B2	08-07-1999
			AU 3816695 A	06-06-1996
			CA 2190018 A1	23-05-1996
			CN 1154740 A ,B	16-07-1997
			DE 69529237 D1	30-01-2003
			DE 69529237 T2	06-11-2003
			DE 69529238 D1	30-01-2003
			DE 69529238 T2	06-11-2003
			DE 69529239 D1	30-01-2003
			DE 69529239 T2	30-10-2003
			DE 69529240 D1	30-01-2003
			DE 69529240 T2	16-10-2003
			DE 69529929 T2	11-12-2003
			DE 69532818 D1	06-05-2004
			EP 0791162 A1	27-08-1997
			JP 10503277 T	24-03-1998
			JP 3287360 B2	04-06-2002
			WO 9615413 A1	23-05-1996
			KR 189100 B1	01-06-1999
			NZ 294934 A	24-09-1998
			RU 2137064 C1	10-09-1999
			SK 143996 A3	08-07-1998
			US 5931004 A	03-08-1999
			AU 686901 B2	12-02-1998
			AU 3881795 A	17-06-1996
			CA 2180113 A1	30-05-1996
			CN 1138906 A	25-12-1996
			DE 19581557 C2	13-06-2001
			DE 19581557 T0	27-03-1997
			DE 69529929 D1	17-04-2003
			EP 0740809 A1	06-11-1996
			GB 2299872 A ,B	16-10-1996
			JP 3034308 B2	17-04-2000
			JP 9503289 T	31-03-1997
			WO 9616364 A1	30-05-1996
			KR 182534 B1	01-05-1999
			NZ 295467 A	26-02-1998
			RU 2130570 C1	20-05-1999
			SK 91796 A3	05-11-1997
			US 5816054 A	06-10-1998
			KR 160435 B1	15-01-1999
DE 3904216	A	16-08-1990	DE 3904216 A1	16-08-1990
US 2442188	A	25-05-1948	NONE	
US 2549547	A	17-04-1951	NONE	
JP 02017375	A	22-01-1990	JP 1823914 C	10-02-1994

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006256

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 02017375	A		JP 5036706 B	31-05-1993
JP 01222177	A	05-09-1989	NONE	
DE 10139834	A	27-02-2003	DE 10139834 A1	27-02-2003
			BR 0211864 A	21-09-2004
			WO 03016798 A2	27-02-2003
			EP 1419351 A2	19-05-2004
US 6006530	A	28-12-1999	CN 1199850 A	25-11-1998
			JP 10318646 A	04-12-1998
EP 0859206	A	19-08-1998	NZ 314264 A	29-06-1999
			AU 724798 B2	28-09-2000
			AU 5534098 A	20-08-1998
			EP 0859206 A2	19-08-1998
			JP 3494874 B2	09-02-2004
			JP 10274462 A	13-10-1998
			US 6000232 A	14-12-1999
EP 0949468	A	13-10-1999	DE 19815642 A1	14-10-1999
			DE 59906227 D1	14-08-2003
			EP 0949468 A2	13-10-1999
			ES 2202954 T3	01-04-2004
			SI 949468 T1	29-02-2004
WO 03054462	A	03-07-2003	DE 10161306 A1	26-06-2003
			BR 0207223 A	09-03-2004
			WO 03054462 A1	03-07-2003
			EP 1459020 A1	22-09-2004
			US 2004074243 A1	22-04-2004
EP 1342967	A	10-09-2003	IT PN20020003 A1	18-07-2003
			EP 1342967 A2	10-09-2003
WO 2004015342	A	19-02-2004	DE 10235783 A1	04-03-2004
			WO 2004015342 A1	19-02-2004
US 2285946	A	09-06-1942	NONE	
US 3403534	A	01-10-1968	NONE	
US 2346837	A	18-04-1944	NONE	
US 2416354	A	25-02-1947	NONE	